MULTIBLOC® 00.ST9

Size 00, 160A, 690VAC, Design for Bottom Fitting, Triple Pole

IEC FUSE SWITCH DISCONNECTORS

NH FUSE SWITCH DISCONNECTOR



The production programme of MULTIBLOC® series 00.ST9 comprises NH fuse switch disconnectors for 160A.

They are designed for bottom fitting/panel installation and are available in triple pole units.

For installation of MULTIBLOC® NH fuse switch disconnectors in distribution units with central cover, respective covers are used to obtain a uniform profile in height and length.

MULTIBLOC® size 00 are designed for NH fuse-links in accordance with IEC/EN 60269-2, VDE 0636-2, size 00, 160A.

MULTIBLOC® offers the user the possibility of fast and easy installation as well as a high degree of security during installation and maintenance.

TECHNICAL DATA OVERVIEW

Voltage AC	690 VAC
Voltage DC	440 VDC
Amper (A)	160 A
Size per Standard	00
SCCR	Ue = AC 400 V; Ie = 160 A 80kA Ue = AC 500 V; Ie = 160 A 80kA Ue = AC 690 V; Ie = 125 A 80kA
Mounting	bottom fitting/panel
Switchability	triple pole switching

FEATURES & BENEFITS

- Touch protction IP 30
- Sealing and padlocking device integrated in switch door cover
- Installation depth 81 mm
- Voltage test through holes in slidable windows directly at contacts or tags of NH-fuse links
- Parking position of switch operating cover even with fuse-links inserted
- Modular system of cover - cover for cable termination area can be extended as required
- Varieties of cable termination: screw, clamp strap, Al-Cu clamp, frame clamp, extendable for V-terminal - optional
- Electronic or electro-mechanic fuse monitoring - optional
- Indicating switch for switch door position - optional
- Installation on to DIN rails in accordance with EN 60 715 - optional
- Safe on load connection/disconnection in accordance with IEC 60947-3

APPLICATIONS

- House incoming units
- Meter distribution units
- Measuring transformer cabinets
- Transmitting stations for telecommunications

STANDARDS

- IEC/EN 60 947-3
  For NH-fuse links size 000/00 in accordance with IEC/EN 60 269-2, VDE 0636-2

CE

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PRODUCT RANGE



2.030.000



2.030.100



2.030.200

MULTIBLOC® 00.ST9 size 00 160A, 690VAC bottom fitting, triple pole

Catalog number	Item number	Poles	Cable termination components	Design	Package	Weight
2.030.000	P1023007	3	6 M8 terminal screws	-	1 piece	0.75 kg
2.030.100	V1023012	3	6 M8 terminal screws	with electronic fuse monitoring ESÜ installed (rated voltage = 525VAC)	1 piece	0.86 kg
2.030.200	C1023042	3	6 M8 terminal screws	with electro-mechanic fuse monitoring MZS installed (galvanic isolation)	1 piece	1.39 kg
2.030.300	D1023043	3	6 M8 terminal screws	fixed window to protect against unauthorized connection	1 piece	0.75 kg
2.031.000	E1023044	3	6 clamp straps Cu 4-70mm²	-	1 piece	0.75 kg
2.031.300	F1023045	3	6 clamp straps Cu 4-70mm²	fixed window to protect against unauthorized connection	1 piece	0.75 kg
2.032.000	G1023046	3	6 Al/Cu clamps 1,5-70 mm² round stranded, 95 mm² sectoral solid	-	1 piece	0.85 kg
2.033.000	H1023047	3	6 frame clamps Cu 2,5-70 mm² factory assembled	-	1 piece	0.7 kg
2.034.000	J1023048	3	3 M8 terminal screws, 3 clamp straps Cu 4-70mm²	-	1 piece	0.75 kg
2.035.000	K1023049	3	3 M8 terminal screws 3 Al/Cu clamps 1,5-70 mm² round stranded, 95 mm² sectoral solid	-	1 piece	0.75 kg

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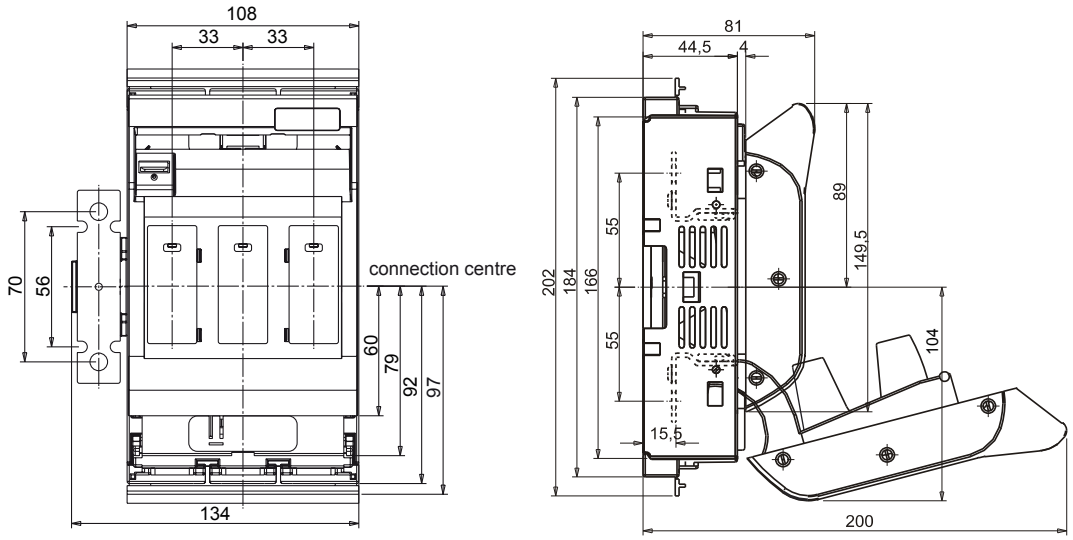
TECHNICAL DATA IN ACCORDANCE WITH EN / IEC 60947

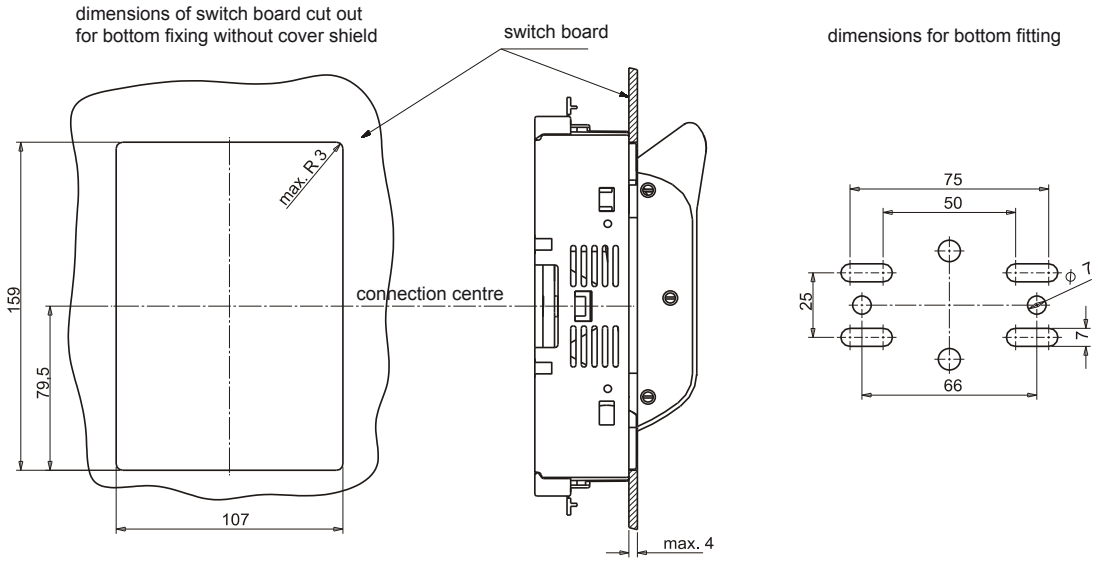
	00.ST9 triple pole
Number of poles/phases	3
Size	00
Conventional free air thermal current with NH-fuse links I_{th}	160 A
Max. power dissipation of fuse links P_n	12 W
Conventional free air thermal current with solid links I_{th}	200 A
Max. power dissipation of solid links P_n	1,2 W
Utilization category to IEC/EN 60947-3 U_e = AC 400 V; I_e = 160 A U_e = AC 500 V; I_e = 160 A U_e = AC 690 V; I_e = 160 A U_e = DC 220 V; I_e = 160 A U_e = DC 440 V; I_e = 100 A	 AC 23 B AC 22 B AC 21 B DC 22 B DC 21 B
Rated operational voltage U_e	690 V
Rated insulation voltage U_i	1000 V
Rated impulse withstand voltage U_{imp}	8 kV
Rated frequency	50 ... 60 Hz
Degree of protection	IP 30
Degree of pollution	3
Rated duty	uninterrupted duty
Rated conditional short-circuit current with fuse links U_e = AC 400 V; I_e = 160 A U_e = AC 500 V; I_e = 160 A U_e = AC 690 V; I_e = 125 A	 80 kA 80 kA 80 kA
Rated short circuit making capacity with solid links I_{cm}	6.2 kAsw
Rated short-time withstand current I_{cw}	4 kA / 1 s
Power dissipation by I_{th} without NH-fuse links	11 W
Power dissipation by I_{th} 200A without solid links	17 W
Installation mode	bottom fitting
Cable terminal connection	
Standard cable terminal	M8
for cable lugs Cu max.	2 x 70 mm²
for cable lugs Al max.	2 x 70 mm²
for copper bars with max. dimensions	20 x 5 mm

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DIMENSIONS

MULTIBLOC® 00.ST9 NH-fuse switch disconnector
triple pole design for bottom fitting (M 01169)



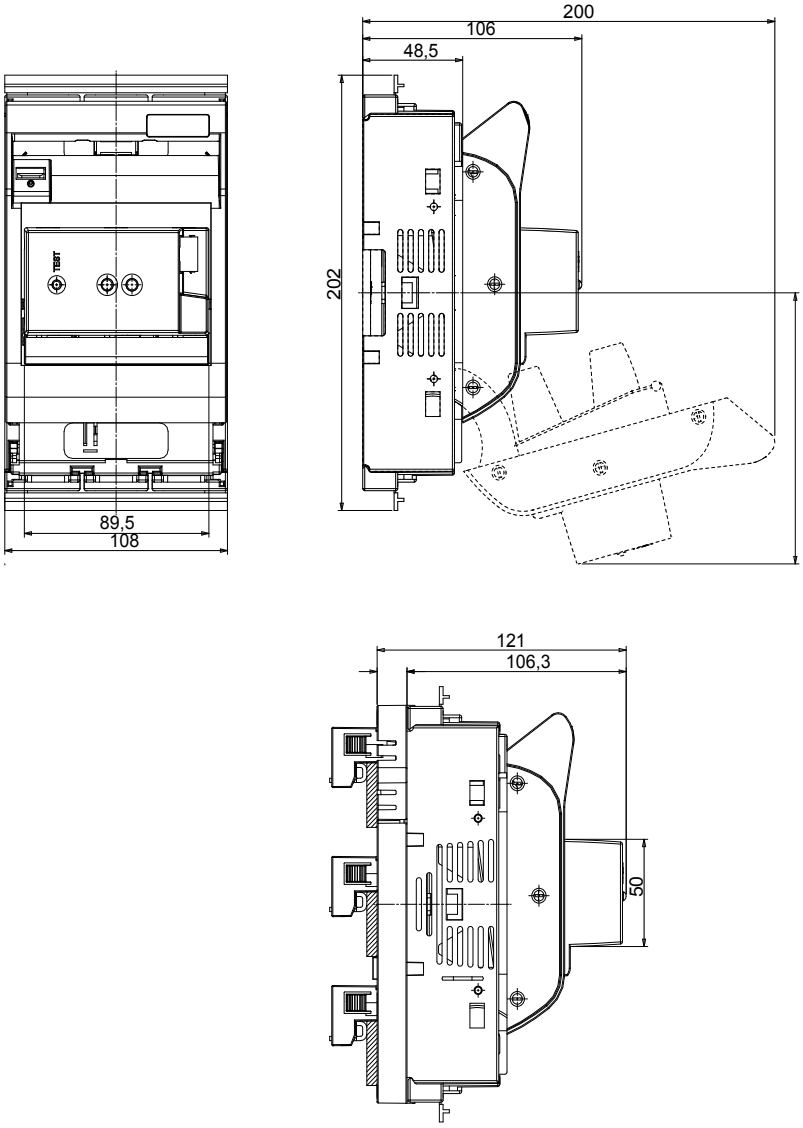


Dimensions in mm

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DIMENSIONS

MULTIBLOC® 00.ST9 and 00.RST9 triple pole with electronic fuse monitoring ESÜ (M 01172)

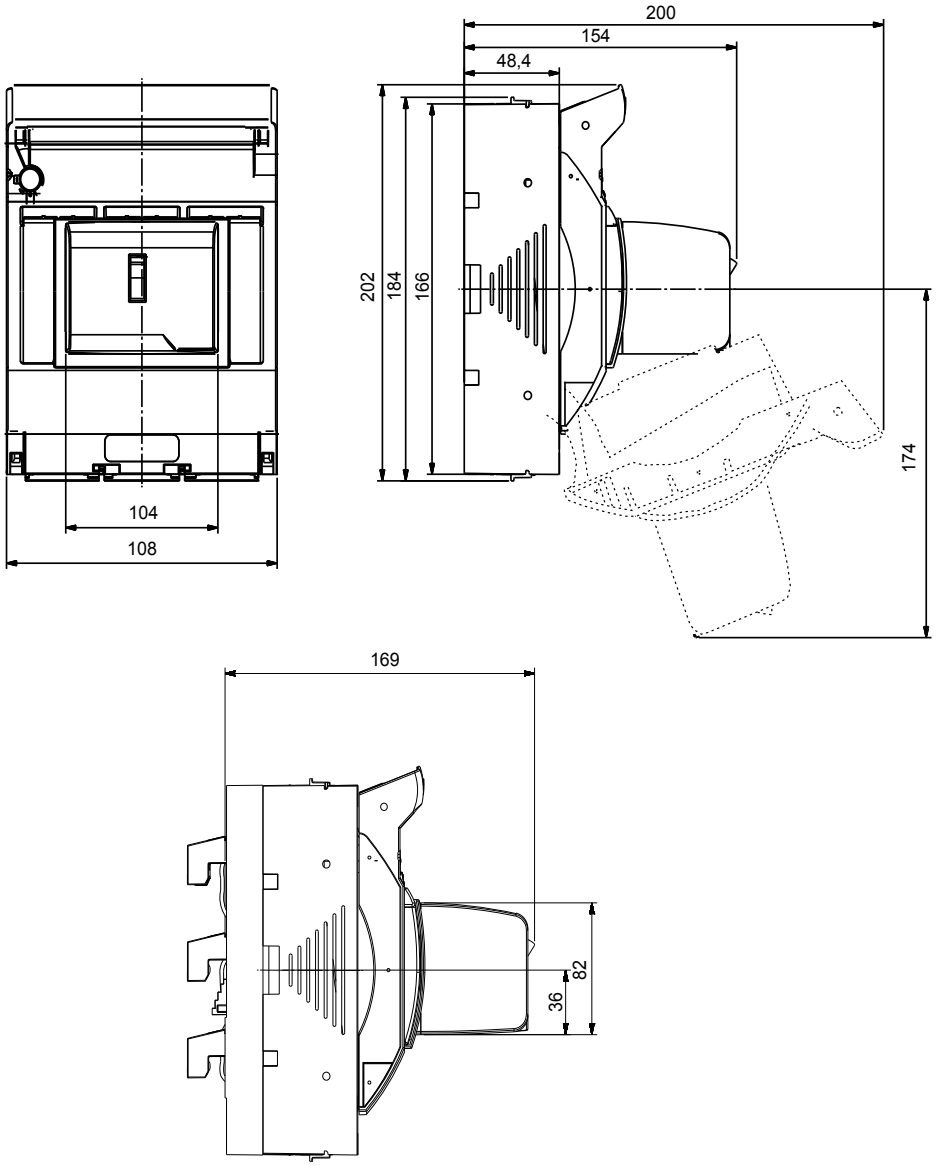


Dimensions in mm

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DIMENSIONS

MULTIBLOC® 00.ST9 and 00.RST9
triple pole with electro-mechanic fuse monitoring MZS (M 01135c-00)

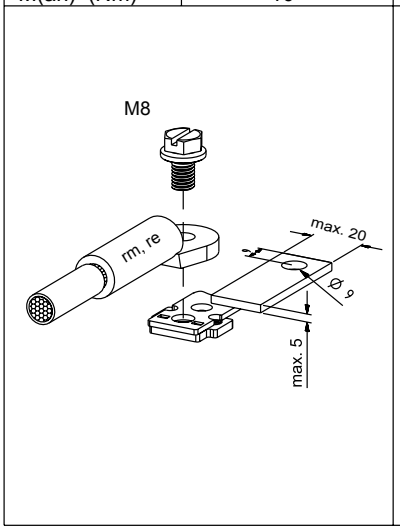
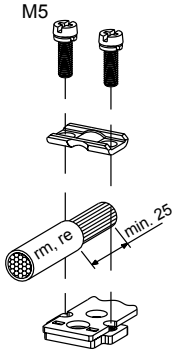
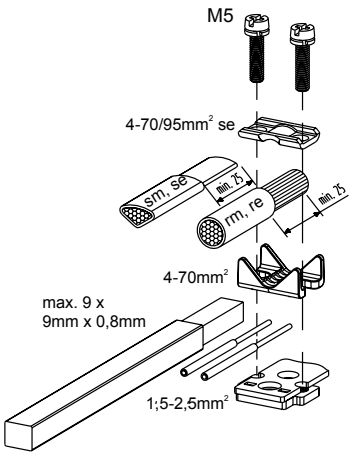
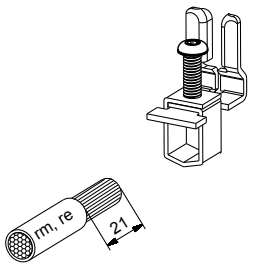


Dimensions in mm

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DIMENSIONS

Cable termination size 00 (MA 120c)

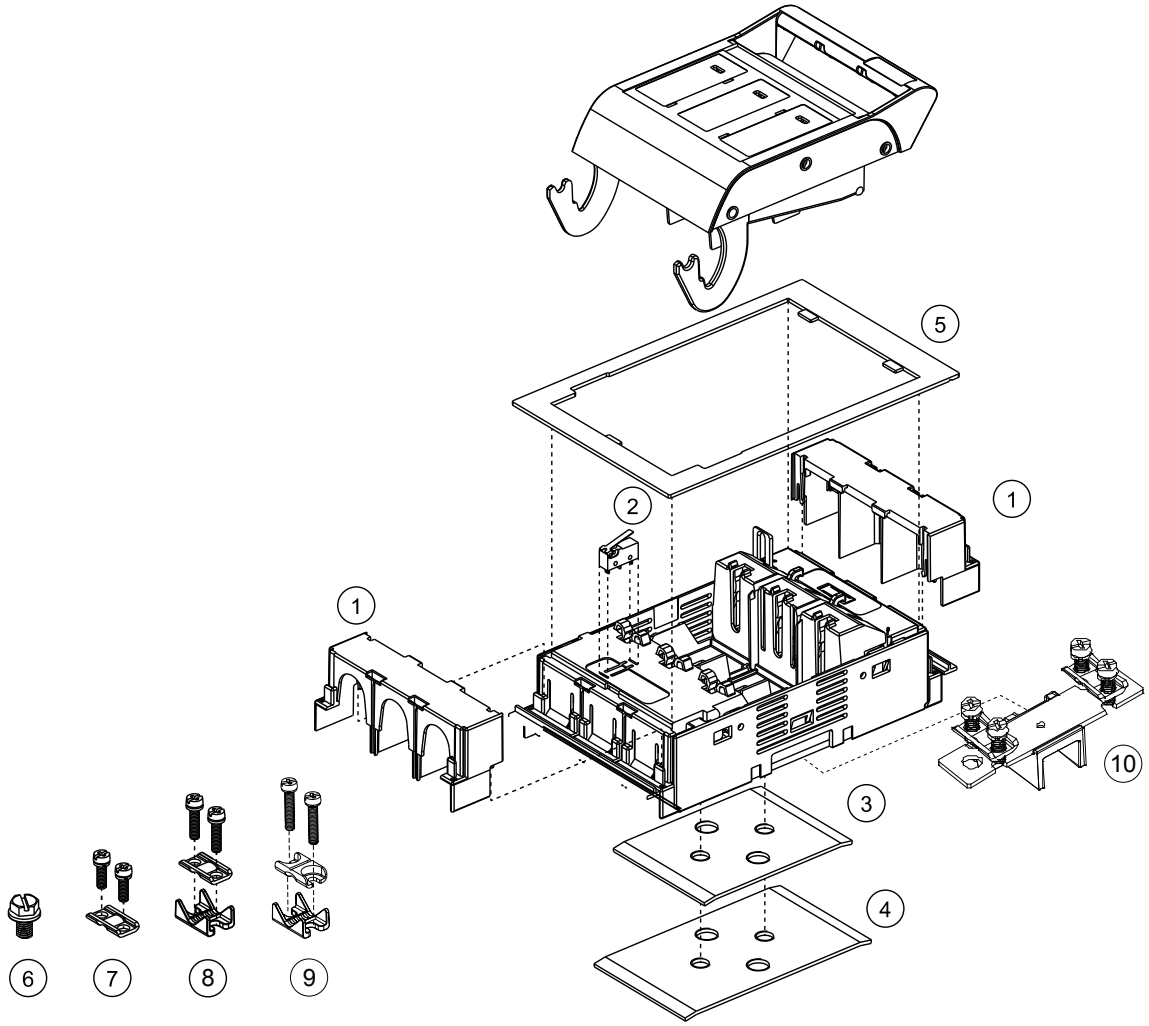
type	N	S	A	R
terminal	screw	clamp srap	Al/Cu clamp	frame clamp
cross section mm²	Cu 16-70	Cu 4-70	Cu 1,5-70	Cu 2,5-70
	Al 16-95	Al ---	Al 1,5-70 sectoral stranded Al 1,5-95 sectoral solid	Al ---
M(an) (Nm)	10	3-4	3-4	6
				 assembled by the manufacturer

Dimensions in mm

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EXPLODED SKETCH

MULTIBLOC® 00.ST9 NH-fuse switch disconnector triple pole design for bottom fitting (E 1.002.784)



no.	articlenumber	short Description
1	1.000.148	Cover for cable termination, triple pole
2	1.000.852	indicator for switch door position
3	1.000.153	Set for mounting on DIN rails 125mm
4	1.000.154	Set for mounting on DIN rails 150mm
5	1.000.126	Cover shield for one switch
6	00SZS	M8 terminal screw screw,1 Set = 3 pieces
7	00SZESK	Clamp strap 4 - 70mm², set = 3 pieces
8	00SZA70	Al/Cu clamp 1·5 - 70mm², set = 3 pieces
9	1.003.571	Al/Cu clamp 50 - 95 mm², set = 3 pieces
10	00SZNS	Neutral cond. support with clamp strap

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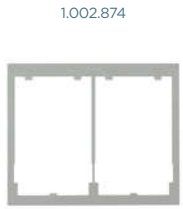
ACCESSORIES


1.000.126


1.003.431

Cover shields

Catalog number	Item number	Design	Package	Weight
1.000.126	Y229285	cover shield for installation in distribution units size (width x height): 123 x 190 mm for one 00.ST9/00.RST9	1 piece	22 g
1.003.431	N1022960	cover shield for installation in distribution units size (width x height): 123 x 210 mm for one 00.ST9/00.RST9	1 piece	30 g
1.002.874	S1022964	cover shield for installation in distribution units size (width x height): 231 x 210 mm for two 00.ST9/00.RST9	1 piece	57 g
1.000.127	Z229286	cover shield for installation in distribution units size (width x height): 231 x 190 mm for two 00.ST9/00.RST9	1 piece	46 g
1.000.128	A229287	cover shield for installation in distribution units size (width x height): 339 x 190 mm for three 00.ST9/00.RST9	1 piece	30 g
1.002.870	R1022963	cover shield for installation in distribution units size (width x height) 231 x 210 mm for one 00.ST9/00.RST9 + lateral spare way cover right side	1 piece	95 g


1.002.874

1.000.127


1.000.128

Cover/shrouds for cable termination

Catalog number	Item number	Design	Package	Weight
1.000.148	W229283	cover for cable terminal connection for 00.ST9 triple pole, 1 set = 2 pieces	1 set	43 g


1.000.153


1.000.154

Installation devices

Catalog number	Item number	Design	Package	Weight
1.000.153	C229887	adapter for installation between DIN-rails in accordance with EN 60715, DIN-rail distance 125mm for 00.ST9 triple pole	1 piece	0.24 kg
1.000.154	D229888	adapter for installation between DIN-rails in accordance with EN 60715, DIN-rail distance 150mm for 00.ST9 triple pole	1 piece	0.29 kg


1.000.852

Indication facilities

Catalog number	Item number	Design	Package	Weight
1.000.852	Q1002285	indicator for switch door position micro switch, 1 change-over contact 5 A, 250 V	1 piece	90 g

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ACCESSORIES



00SZS



00SZESK



1.003.433



00SZSV6

Varieties of cable termination

Catalog number	Item number	Design	Package	Weight
00SZS	M229298	M8 terminal screw for switch gear size 00 1 set = 3 pieces	1 set	35 g
00SZESK	E214594	clamp strap Cu 4–70 mm² for switch gear size 00 1 set = 3 pieces	1 set	35 g
00SZA70	R211523	Al/Cu clamp 1,5–70 mm² for switch gear size 00 1 set = 3 pieces	1 set	75 g
1.003.571	V1033684	Al/Cu clamp 50 -95 mm² round stranded for switch gear size 00 1 set = 3 pieces	1 set	88 g
1.003.433	L1022958	triple clamp per pole 1.5 up to 16 mm² 1 set = 3 pieces	1 set	0.14 kg
00SZSV6	K1022957	V-shaped lug size 00, M8, for V-terminal clamp size 00 for switch gear size 00 with screw terminal supplementary set for V-terminal with V-terminal clamps 1 set = 3 pieces	1 set	0.13 kg



00SZNS

Neutral conductor

Catalog number	Item number	Design	Package	Weight
00SZNS	A1023086	neutral conductor support for lateral installation either left or right side of MULTIBLOC® size 00 cable termination clamp strap Cu 4-70 mm² round stranded/round solid	1 piece	83 g

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